



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3619-1
Job Sheet 215613



Part No: D3619-1

Job Qty: 20 pcs

Part Name: Grommet



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/18/20

Job Tracking No:

Due Date: 12/10/20

Created By: Marie Lajeunesse

Type: Stock

Description: SIOP

Note: DWG REV A IPP Rev:A New Issue 07-04-09 JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	20 pcs	12/10/20		0.00	0.00	Purchasing - 1		NOV 23 2020
							Purchasing - 2		
							Purchasing - 3		
110	Packaging 2-1 - Receive - B4B	20 pcs	12/10/20		0.00	0.00	Packaging 2 - 1 - B4B		NOV 23 2020
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		
							Packaging 2 - 20 - B4B		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S314925



Part: D3619-1

Job No: 215613

Serial No/Batch: S314925

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 11/23/20

Plex 11/18/20 11:53 AM Dart.lajeunesse.marie

					B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
					Packaging 2 - 37 - B4B	
120 QC 6	20 pcs	12/10/20	0.00 0.00	QC 6 - 9		
				QC 6 - 68		
				QC 6 - 61		
				QC 6 - 40	NOV 26 2020 DAS 40	
				QC 6 - 81	0.89	
				QC 6 - 82		
130 Packaging 3-1 - Stock - B4B	20 pcs	12/10/20	0.00 0.00	Packaging 3 - 1 - B4B		
				Packaging 3 - 2 - B4B		
				Packaging 3 - 3 - B4B		
				Packaging 3 - 4 - B4B		
				Packaging 3 - 5 - B4B	DAS 28	
				Packaging 3 - 6 - B4B	0.89	
				Packaging 3 - 7 - B4B	NOV 27 2020	
				Packaging 3 - 8 - B4B		
				Packaging 3 - 9 - B4B		
				Packaging 3 - 10 - B4B		
				Packaging 3 - 11 - B4B		
				Packaging 3 - 12 - B4B		
				Packaging 3 - 13 - B4B		
				Packaging 3 - 14 - B4B		
				Packaging 3 - 15 - B4B		
				Packaging 3 - 16 -		
					Plex 11/18/20 11:53 AM	Dart.lajeunesse.marie

				B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
				Packaging 3 - 37 - B4B	DAS
140 QC 21 - SA	20 pcs	12/10/20	0.00 0.00	QC 21 - SA - 21	21 NOV 27 2020
				QC 21 - SA - 70	9-89
				QC 21 - SA - 9	
				QC 21 - SA - 77	
				QC 21 - SA - 28	
Part Op 100 - (Purchasing) Issue P/O: 10076 Purchase Part Number: 9610K17 Descriptions: 110 - (Receive & Inspect for Damage & Mat'l Certs) Ensure material certification is attached 120 - (QC6- All purchased or subcontracted products) 130 - (Identify as per dwg & Stock Location: _____) *****Remove supplier paperwork from box.***** Location: _____ 140 - (QC21- Final Inspection - Work Order Release) x 20 <i>[Signature]</i> NOV 18 2020					
Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
9610K17	Grommet D3619-1	20 Ea (1 ea)	100-Purchasing	5314924 5314924	
Job Allocations					
Operation	Component Part	Required	Inventory	Allocated	
100-Purchasing	9610K17	20	0	0	

Part Specifications

Specifications could not be found.

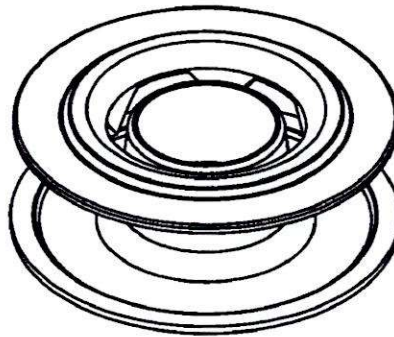
Plex 11/18/20 11:53 AM Dart.lajeunesse.marie

DART

DESIGN <i>LE</i>	DRAWN BY <i>LE</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>PH</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3619	REV. A SHEET 1 OF 1
DATE 07.03.26		TITLE GROMMET	SCALE NTS
REV A	DATE 07.03.26	DESCRIPTION NEW ISSUE	

SPECIFICATION CONTROL DRAWING

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. *215613 ML5*
207118



RELEASED
07 04 02 *[Signature]*

D3619-X GROMMET,
WHERE X REPRESENTS THE GROMMET TRADE SIZE

DART P/N	TRADE SIZE	DESCRIPTION	HOLE SIZE	MAX. MTL THICKNESS	MCMaster CARR P/N
D3619-0	0	BRASS GROMMET W/ TEETH	1/4	0.110	9610K16
D3619-1	1	BRASS GROMMET W/ TEETH	9/32	0.120	9610K17
D3619-2	2	BRASS GROMMET W/ TEETH	3/8	0.150	9610K18
D3619-3	3	BRASS GROMMET W/ TEETH	7/16	0.230	9610K19
D3619-4	4	BRASS GROMMET W/ TEETH	1/2	0.300	9610K21

NOTES:

- 1) PURCHASE INFO: MCMaster-CARR P/N'S INCLUDE THE FOLLOWING:
48 GROMMETS FOR SIZE 0 & 1,
24 GROMMETS FOR SIZE 2, 3 & 4,
D3619-XT1 HOLE PUNCH,
D3619-XT2 STRIKER BLOCK,
D3619-XT3 PUNCH AND
D3619-XT4 DIE
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QS1042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER POHB047673



Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

Attention: N/A,

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB047673

PO Date: 11/18/20

Due Date: 11/23/20

**Purchase Order
Revision:**

Revision Date:

Issued By: Lussier, Patrick
Phone: 613-632-5200 Ext: 276
plussier@dartaero.com

Via: Ground

Pynt Terms: Net 60

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		2030N14			Clamping Handle with Internal Thread, 10-32 size	Firmed	-	11/23/20	20 Ea	0 Ea	20 Ea	\$10.92/Ea	\$218.40
2		50715K179		1/pack	Female Pipe Adapter SS 37 Degree Flared Fitting for Stainless Steel Tubing 1/pack	Firmed	-	11/23/20	1 Ea	0 Ea	1 Ea	\$27.16/Ea	\$27.16
3		5972K289			Bearing	Firmed	-	11/23/20	10 Ea	0 Ea	10 Ea	\$10.42/Ea	\$104.20
4		65035K370		1/pk	Nylon Two Arm Knob 5/16"-18 X 1" Steel Stud Lg. X 3" Head Wd.	Firmed	-	11/23/20	2 Ea	0 Ea	2 Ea	\$1.98/Ea	\$3.96
5		90967A210		5/pk	External Snap Ring Ø17mm receive ea	Firmed	-	11/23/20	10 Ea	0 Ea	10 Ea	\$1.07577/Ea	\$10.76
6		91280A322		100/pk	Flat Head Machine Screw	Firmed	-	11/23/20	100 Ea	0 Ea	100 Ea	\$0.0812/Ea	\$8.12
7		91292A080		10/pk	Screw	Firmed	-	11/23/20	10 Ea	0 Ea	10 pcs	\$0.637/pcs	\$6.37
8		98470A010		1/pk	Shoulder-Style Ring-Grip Quick-Release Pin, 18-8 Stainless Steel, 3/16" Diameter, 1" Usable Length	Firmed	-	11/23/20	2 Ea	0 Ea	2 Ea	\$2.86/Ea	\$5.72
9		C2-3-2-1	C3	98410A115 100/pk	Roller Pin Retaining Ring	Firmed	-	11/23/20	100 Ea	0 Ea	100 Ea	\$0.0982/Ea	\$9.82
10		C2-11-2		90145A510 20/PK	Locating Pin	Firmed	-	11/23/20	20 Ea	0 Ea	20 Ea	\$0.423/Ea	\$8.46
11		C2-14-2	C3	91654A106 100/pk	Label Rivets	Firmed	-	11/23/20	100 Ea	0 Ea	100 Ea	\$0.027/Ea	\$2.70
12		C2-5-1		90145A509 20/PK	Actuator Stop	Firmed	-	11/23/20	20 Ea	0 Ea	20 Ea	\$0.408/Ea	\$8.16
13		C45-11-2	C45	90145A510 20/pk	Locating Pin	Firmed	-	11/23/20	20 Ea	0 Ea	20 Ea	\$0.423/Ea	\$8.46
14		M301S23GA-H50		1217T43 3/SF	301 SS SHEET, 12" x 36", 1/2 Hard Temper, 0.029" Thick	Firmed	-	11/23/20	3 sf	0 sf	3 sf	\$21.77/sf	\$65.31



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PURCHASE ORDER POHB047673



Items

Line Item	Job	Part	Drawing	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
15		M6061T6H0.551		8252T71 3ft	6061-T6 HEX BAR 14 mm : MATERIAL:6061-T6/T651/T6510/T6511/T62 ALUMINUM HEX BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/23/20	3 ft	0 ft	3 ft	\$4.2866/ft	\$12.86
16		RBEL135M-2905-101-39	RBEL135M-2905-101	9003K41 1/PK	Poly-V Groove Belt	Firmed	-	11/23/20	7 Ea	0 Ea	7 Ea	\$8.71/Ea	\$60.97
17		RBT18025-13	RBT18025	1757T57 1/PK	Linear Scale (50 lbs)	Firmed	-	11/23/20	2 Ea	0 Ea	2 Ea	\$140.35/Ea	\$280.70
18		SWA3-700		9529K15 100/per pk	9529K15 Bearing Balls - 1/4"	Firmed	-	11/23/20	100 Ea	0 Ea	100 Ea	\$0.1332/Ea	\$13.32
19		SWA6A-1900		69525K16 100/pk	1/4" Female Spade Connector	Firmed	-	11/23/20	100 Ea	0 Ea	100 Ea	\$0.0772/Ea	\$7.72
20	215464	6718K52	D4182		Fitting, Quick Disconnect D4182-1 : AS PER DWG D4182 REV. B	Firmed	-	11/23/20	6 pcs	0 pcs	6 pcs	\$5.98/pcs	\$35.88
21	215533	2030N14			Clamping Handle with Internal Thread, 10-32 size	Firmed	-	11/23/20	12 Ea	0 Ea	12 Ea	\$10.92/Ea	\$131.04
22	215613	9610K17		1/pk	Grommet D3619-1	Firmed	-	11/23/20	20 Ea	0 Ea	20 Ea	\$12.90/Ea	\$258.00
Grand Total:												\$1,288.09	

Order Notes



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
POHB047673



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable). No Raw Metals from China or Soviet Bloc Countries. (DFARS)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program.

A049 supplier awareness.

Procurement Quality Clauses

A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Please ensure to send the related invoice to hby_ap@dartaero.com.

Plex 11/18/20 4:49 PM dart.lussier.patrick



McMASTER-CARR®

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB047673
Order Placed By
Patrick Lussier

McMaster-Carr Number
6273943-03

Packing List

Page 1 of 2

11/18/2020

Line	Product	Ordered	Shipped
1	2030N14 Clamping Handle with Internal Thread, 10-32 Size	20 Each	20
2	50715K179 37 Degree Flared Fitting for Stainless Steel Tubing, Adapter for 5/16" Tube-OD x 1/8 NPT Female	1 Each	1
3	5972K289 Ball Bearing, Sealed, Trade No. 6903-2RS, for 17 mm Shaft Diameter	10 Each	10
4	65035K37 Two Arm Knob, Nylon, 5/16"-18 Thread x 1" Long Steel Stud, 3" Wide Head	2 Each	2
5	90967A210 External Retaining Ring for 17 mm OD, DIN 1.4122 Stainless Steel, Packs of 5	2 Packs	2
6	91280A322 Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc-Plated, M6 x 1 mm Thread, 10 mm Long, Packs of 100	1 Pack	1
7	91292A080 18-8 Stainless Steel Socket Head Screw, M8 x 1.25 mm Thread, 18 mm Long, Packs of 10	1 Pack	1
8	98470A010 Shoulder-Style Ring-Grip Quick-Release Pin, 18-8 Stainless Steel, 3/16" Diameter, 1" Usable Length	2 Each	2
9	98410A115 External Retaining Ring for 5/16" OD, Zinc Yellow-Chromate-Plated Spring Steel, Packs of 100	1 Pack	1
10	90145A510 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 1" Long, Packs of 20	1 Pack	1
11	91654A106 18-8 Stainless Steel Screw Nails for Metal, Plastic and Plywood, Size 4, 1/4" Long, Packs of 100	1 Pack	1
12	90145A509 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 7/8" Long, Packs of 20	1 Pack	1
13	90145A510 18-8 Stainless Steel Dowel Pin, 3/16" Diameter, 1" Long, Packs of 20	1 Pack	1
16	9003K41 Ultra-Flexible Banded V-Belt, Trade Number 180J4, 18-5/16" Outer Circumference	7 Each	7
17	1757T57 Dial Hanging Scale, 50 lb. Capacity, 13" High x 1" Wide Overall	2 Each	2
19	69525K16 Noninsulated Quick-Disconnect Terminals, Single-Crimp Female, 16-14 Gauge, 1/4" Wide x 0.032" Thick Tab, Packs of 100	1 Pack	1
20	6718K52 303 Stainless Steel Industrial Quick-Disconnect Hose Coupling for Air, Plug, 1/4 Coupling Size, 1/4 NPTF Female End	6 Each	6
21	2030N14 Clamping Handle with Internal Thread, 10-32 Size	12 Each	7
22	9610K17 Fabric Grommet Kit with Tooth Lock Washers, Trade Size 1, for 0.12" Maximum Thickness	20 Each	20

DAS
40
8-89

Packing Lis

200 Aurpra Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
POHB047673

Order Placed By
Patrick Lussier

McMaster-Carr Number
6273943-03

Page 2 of 2

11/18/2020

Shipped separately from our Cleveland warehouse on 11/18

14	1217T43	Fatigue-Resistant 301 Stainless Steel Sheet, 12" x 36", 1/2 Hard Temper, 0.029" Thick	1 Each	1
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Shipped separately from our Chicago warehouse on 11/18

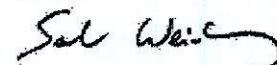
18	9529K15	Hardened Bearing-Quality 440C Stainless Steel Ball, 1/4" Diameter	1 Pack	1
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Expected to ship

15	8252T71	Multipurpose 6061 Aluminum Hex Bar, 14 mm Wide, 3 Feet Long	1 Each	1 Dec 2-3
21	2030N14	Clamping Handle with Internal Thread, 10-32 Size	12 Each	5 Nov 19-20

Certificate of compliance

This is to certify that the above items were supplied in accordance with the description and as illustrated in the catalog. Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.



Sarah Weinberg
Compliance Manager

RECEIVED

NOV 19 2020

DART AEROSPACE LTD.

1-Box
P/N 021111: C/PK008226517